

**A Tabulation of Some
SEMICONDUCTOR INTEGRALS**

by
Richard M. Brown
and
Norman K. Hindley

UNIVERSITY OF ILLINOIS BULLETIN

A REPORT OF AN INVESTIGATION

**Conducted by
THE COORDINATED SCIENCE LABORATORY
and
THE DEPARTMENT OF PHYSICS
ENGINEERING EXPERIMENT STATION
UNIVERSITY OF ILLINOIS**

**With support from the Army, Navy, and Air Force Under Department
of the Army Contract DA 36 039 AMC 02208(E) and by the Office of
Naval Research under Contract No. NONR 1834(12)**

**Edited by
Paul T. Bryant**

Price: \$1.00

UNIVERSITY OF ILLINOIS BULLETIN

**Volume 61, Number 86; May, 1964. Published nine times each month by the University of
of Illinois. Entered as second-class matter December 11, 1912, at the post office at Urbana, Illinois,
under the Act of August 24, 1912. Office of Publication, 49 Administration Building (West), Urbana, Ill.**

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ENGINEERING EXPERIMENT STATION CIRCULAR NO. 84

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A TABULATION OF SOME SEMICONDUCTOR INTEGRALS*

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In calculations of the effect of high frequency electric fields and/or steady uniform magnetic fields on the theoretical properties of metals and semiconductors, two integrals $A(p,x)$ and $E(p,x)$ are of especial importance:

$$A(p,x) = \frac{1}{p!} \int_0^{\infty} \frac{y^p e^{-y} dy}{(x+y)} \quad (1)$$

$$E(p,x) = \frac{1}{p!} \int_0^{\infty} \frac{y^p e^{-y} dy}{(1+xy^3)}$$

Here x is proportional to the square of the angular frequency of the applied high frequency field or of the precessional frequency in the magnetic field. These integrals were first evaluated by Dingle *et al*^(1,2) and tabulated as a function of the argument x . In this circular the two integrals are evaluated to greater accuracy and tabulated versus the square root of the argument x at closer intervals than in Dingle's tables. It is felt that this tabulation will be of more convenient form for calculations involving experimental data.

Method of Computation

These tables were computed in FORTRAN on a CDC 1604 computer, using an integration method devised by Nordsieck⁽³⁾ which is similar to the better-known method of Adams⁽⁴⁾. The FORTRAN version of this integration scheme was written by P. J. Ponzo as a standard system subroutine. The method permits specification of the desired integration accuracy up to the limits of computer accuracy, which here is about ten decimal places.

Both integrals were calculated to five significant figures; the upper limits of integration were determined by the value of the variable y at which the integrand was less than 0.01 times the allowed error. The exceptional point in the integrand in A at the origin for $p = 1/2$ made it necessary to split the integration procedure for A into two parts, one proceeding towards the origin and the other proceeding from the starting point up to the upper limit of integration.

*The research reported in this paper was supported by the Army, Navy and Air Force under Department of Army Contract DA 36 039 AMC 02208(E); and by the Office of Naval Research under Contract No. NONR 1834(12).

For tabulation the values were rounded to the fourth decimal place given. The tabulation intervals are small enough that for most cases linear interpolation is sufficiently accurate.

References

1. R. B. Dingle, D. Arndt, and S. K. Roy, "The Integrals $A_p(x)$ and $B_p(x)$ and Their Tabulation," Applied Science Research B6, 144 (1957).
2. R. B. Dingle and D. Arndt, "The Integrals $E_p(x)$ and $F_p(x)$ and Their Tabulation," Applied Science Research B6, 245 (1957).
3. A. W. Nordsieck, "On Numerical Integration of Ordinary Differential Equations," Mathematics of Computation XVI, 22 (1962).
4. W. E. Milne, Numerical Solutions of Differential Equations, John Wiley & Sons, Inc., (New York, N. Y., 1953), p. 53.

A(P,X)

SQRT(X)	A(.5,X)	A(1.0,X)	A(1.5,X)	A(2.0,X)	A(2.5,X)	A(3.0,X)	A(3.5,X)	A(4.0,X)
.000	.2000E+01	.1000E+01	.6667E+00	.5000E+00	.4000E+00	.3333E+00	.2857E+00	.2500E+00
.010	.1965E+01	.9991E+00	.6665E+00	.4999E+00	.4000E+00	.3333E+00	.2857E+00	.2500E+00
.011	.1961E+01	.9990E+00	.6665E+00	.4999E+00	.4000E+00	.3333E+00	.2857E+00	.2500E+00
.012	.1958E+01	.9988E+00	.6665E+00	.4999E+00	.4000E+00	.3333E+00	.2857E+00	.2500E+00
.013	.1955E+01	.9986E+00	.6664E+00	.4999E+00	.4000E+00	.3333E+00	.2857E+00	.2500E+00
.014	.1951E+01	.9984E+00	.6664E+00	.4999E+00	.3999E+00	.3333E+00	.2857E+00	.2500E+00
.015	.1948E+01	.9982E+00	.6664E+00	.4999E+00	.3999E+00	.3333E+00	.2857E+00	.2500E+00
.016	.1944E+01	.9980E+00	.6663E+00	.4999E+00	.3999E+00	.3333E+00	.2857E+00	.2500E+00
.017	.1941E+01	.9978E+00	.6663E+00	.4999E+00	.3999E+00	.3333E+00	.2857E+00	.2500E+00
.018	.1937E+01	.9976E+00	.6662E+00	.4998E+00	.3999E+00	.3333E+00	.2857E+00	.2500E+00
.019	.1934E+01	.9973E+00	.6662E+00	.4998E+00	.3999E+00	.3333E+00	.2857E+00	.2500E+00
.020	.1931E+01	.9971E+00	.6661E+00	.4998E+00	.3999E+00	.3333E+00	.2857E+00	.2500E+00
.022	.1924E+01	.9966E+00	.6660E+00	.4998E+00	.3999E+00	.3333E+00	.2857E+00	.2500E+00
.024	.1917E+01	.9960E+00	.6659E+00	.4997E+00	.3998E+00	.3332E+00	.2856E+00	.2500E+00
.026	.1910E+01	.9955E+00	.6658E+00	.4997E+00	.3998E+00	.3332E+00	.2856E+00	.2499E+00
.028	.1904E+01	.9948E+00	.6657E+00	.4996E+00	.3998E+00	.3332E+00	.2856E+00	.2499E+00
.030	.1897E+01	.9942E+00	.6655E+00	.4996E+00	.3998E+00	.3332E+00	.2856E+00	.2499E+00
.032	.1891E+01	.9935E+00	.6654E+00	.4995E+00	.3997E+00	.3332E+00	.2856E+00	.2499E+00
.034	.1884E+01	.9928E+00	.6652E+00	.4994E+00	.3997E+00	.3331E+00	.2856E+00	.2499E+00
.036	.1877E+01	.9921E+00	.6650E+00	.4994E+00	.3997E+00	.3331E+00	.2856E+00	.2499E+00
.038	.1871E+01	.9914E+00	.6649E+00	.4993E+00	.3996E+00	.3331E+00	.2855E+00	.2499E+00
.040	.1864E+01	.9906E+00	.6647E+00	.4992E+00	.3996E+00	.3331E+00	.2855E+00	.2499E+00
.042	.1858E+01	.9898E+00	.6645E+00	.4991E+00	.3995E+00	.3330E+00	.2855E+00	.2499E+00
.044	.1851E+01	.9890E+00	.6643E+00	.4990E+00	.3995E+00	.3330E+00	.2855E+00	.2498E+00
.046	.1845E+01	.9882E+00	.6641E+00	.4990E+00	.3994E+00	.3330E+00	.2855E+00	.2498E+00
.048	.1839E+01	.9873E+00	.6638E+00	.4989E+00	.3994E+00	.3330E+00	.2855E+00	.2498E+00
.050	.1832E+01	.9864E+00	.6636E+00	.4988E+00	.3993E+00	.3329E+00	.2854E+00	.2498E+00
.055	.1817E+01	.9841E+00	.6630E+00	.4985E+00	.3992E+00	.3328E+00	.2854E+00	.2497E+00
.060	.1801E+01	.9817E+00	.6623E+00	.4982E+00	.3990E+00	.3327E+00	.2853E+00	.2497E+00
.065	.1786E+01	.9792E+00	.6616E+00	.4979E+00	.3989E+00	.3326E+00	.2852E+00	.2496E+00
.070	.1770E+01	.9766E+00	.6609E+00	.4976E+00	.3987E+00	.3325E+00	.2852E+00	.2496E+00
.075	.1755E+01	.9739E+00	.6601E+00	.4973E+00	.3985E+00	.3324E+00	.2851E+00	.2495E+00
.080	.1740E+01	.9711E+00	.6592E+00	.4969E+00	.3983E+00	.3323E+00	.2850E+00	.2495E+00
.085	.1725E+01	.9683E+00	.6584E+00	.4965E+00	.3981E+00	.3321E+00	.2849E+00	.2494E+00
.090	.1711E+01	.9653E+00	.6574E+00	.4961E+00	.3979E+00	.3320E+00	.2848E+00	.2493E+00
.095	.1696E+01	.9623E+00	.6565E+00	.4957E+00	.3976E+00	.3318E+00	.2847E+00	.2493E+00
.100	.1682E+01	.9592E+00	.6555E+00	.4952E+00	.3974E+00	.3317E+00	.2846E+00	.2492E+00

SQRT(X)	A(.5,X)	A(1.0,X)	A(1.5,X)	A(2.0,X)	A(2.5,X)	A(3.0,X)	A(3.5,X)	A(4.0,X)
.100	.1682E+01	.9592E+00	.6555E+00	.4952E+00	.3974E+00	.3317E+00	.2846E+00	.2492E+00
.110	.1654E+01	.9529E+00	.6533E+00	.4942E+00	.3968E+00	.3313E+00	.2843E+00	.2490E+00
.120	.1627E+01	.9463E+00	.6511E+00	.4932E+00	.3962E+00	.3310E+00	.2841E+00	.2488E+00
.130	.1600E+01	.9395E+00	.6486E+00	.4921E+00	.3956E+00	.3306E+00	.2838E+00	.2486E+00
.140	.1573E+01	.9325E+00	.6461E+00	.4909E+00	.3949E+00	.3301E+00	.2835E+00	.2484E+00
.150	.1547E+01	.9255E+00	.6435E+00	.4896E+00	.3942E+00	.3297E+00	.2832E+00	.2481E+00
.160	.1522E+01	.9182E+00	.6407E+00	.4882E+00	.3934E+00	.3292E+00	.2828E+00	.2479E+00
.170	.1498E+01	.9109E+00	.6378E+00	.4868E+00	.3926E+00	.3286E+00	.2825E+00	.2476E+00
.180	.1473E+01	.9035E+00	.6348E+00	.4854E+00	.3918E+00	.3281E+00	.2821E+00	.2473E+00
.190	.1450E+01	.8960E+00	.6318E+00	.4838E+00	.3909E+00	.3275E+00	.2817E+00	.2470E+00
.200	.1426E+01	.8884E+00	.6286E+00	.4822E+00	.3899E+00	.3269E+00	.2813E+00	.2467E+00
.220	.1381E+01	.8731E+00	.6221E+00	.4789E+00	.3880E+00	.3256E+00	.2803E+00	.2461E+00
.240	.1338E+01	.8576E+00	.6153E+00	.4753E+00	.3858E+00	.3242E+00	.2794E+00	.2453E+00
.260	.1297E+01	.8421E+00	.6082E+00	.4715E+00	.3836E+00	.3227E+00	.2783E+00	.2445E+00
.280	.1257E+01	.8265E+00	.6010E+00	.4676E+00	.3812E+00	.3211E+00	.2772E+00	.2437E+00
.300	.1219E+01	.8111E+00	.5935E+00	.4635E+00	.3786E+00	.3194E+00	.2760E+00	.2428E+00
.320	.1182E+01	.7956E+00	.5860E+00	.4593E+00	.3760E+00	.3177E+00	.2747E+00	.2419E+00
.340	.1147E+01	.7803E+00	.5783E+00	.4549E+00	.3733E+00	.3158E+00	.2734E+00	.2409E+00
.360	.1113E+01	.7652E+00	.5705E+00	.4504E+00	.3704E+00	.3139E+00	.2720E+00	.2398E+00
.380	.1080E+01	.7502E+00	.5627E+00	.4458E+00	.3675E+00	.3119E+00	.2706E+00	.2387E+00
.400	.1049E+01	.7354E+00	.5548E+00	.4412E+00	.3645E+00	.3098E+00	.2691E+00	.2376E+00
.420	.1019E+01	.7208E+00	.5469E+00	.4364E+00	.3614E+00	.3077E+00	.2675E+00	.2364E+00
.440	.9896E+00	.7065E+00	.5389E+00	.4316E+00	.3583E+00	.3055E+00	.2659E+00	.2352E+00
.460	.9616E+00	.6923E+00	.5310E+00	.4268E+00	.3551E+00	.3032E+00	.2642E+00	.2340E+00
.480	.9346E+00	.6784E+00	.5231E+00	.4218E+00	.3518E+00	.3009E+00	.2626E+00	.2327E+00
.500	.9087E+00	.6648E+00	.5152E+00	.4169E+00	.3485E+00	.2986E+00	.2608E+00	.2313E+00
.550	.8478E+00	.6318E+00	.4957E+00	.4044E+00	.3400E+00	.2926E+00	.2563E+00	.2279E+00
.600	.7923E+00	.6004E+00	.4765E+00	.3919E+00	.3314E+00	.2863E+00	.2516E+00	.2242E+00
.650	.7415E+00	.5706E+00	.4578E+00	.3795E+00	.3226E+00	.2799E+00	.2468E+00	.2204E+00
.700	.6949E+00	.5424E+00	.4397E+00	.3671E+00	.3138E+00	.2734E+00	.2418E+00	.2165E+00
.750	.6522E+00	.5158E+00	.4221E+00	.3549E+00	.3050E+00	.2668E+00	.2367E+00	.2125E+00
.800	.6129E+00	.4906E+00	.4051E+00	.3430E+00	.2963E+00	.2602E+00	.2315E+00	.2084E+00
.850	.5768E+00	.4669E+00	.3888E+00	.3313E+00	.2876E+00	.2535E+00	.2263E+00	.2042E+00
.900	.5435E+00	.4446E+00	.3732E+00	.3199E+00	.2791E+00	.2469E+00	.2211E+00	.2000E+00
.950	.5127E+00	.4235E+00	.3582E+00	.3089E+00	.2707E+00	.2404E+00	.2159E+00	.1958E+00
1.000	.4843E+00	.4037E+00	.3438E+00	.2982E+00	.2625E+00	.2339E+00	.2107E+00	.1915E+00

A(P,X)

SQRT(X)	A(.5,X)	A(1.0,X)	A(1.5,X)	A(2.0,X)	A(2.5,X)	A(3.0,X)	A(3.5,X)	A(4.0,X)
1.000	.4843E+00	.4037E+00	.3438E+00	.2982E+00	.2625E+00	.2339E+00	.2107E+00	.1915E+00
1.100	.4335E+00	.3673E+00	.3170E+00	.2778E+00	.2466E+00	.2213E+00	.2005E+00	.1831E+00
1.200	.3897E+00	.3350E+00	.2925E+00	.2588E+00	.2315E+00	.2091E+00	.1905E+00	.1747E+00
1.300	.3518E+00	.3063E+00	.2703E+00	.2412E+00	.2173E+00	.1975E+00	.1808E+00	.1666E+00
1.400	.3188E+00	.2807E+00	.2500E+00	.2249E+00	.2040E+00	.1864E+00	.1715E+00	.1587E+00
1.500	.2900E+00	.2579E+00	.2316E+00	.2098E+00	.1915E+00	.1760E+00	.1626E+00	.1510E+00
1.600	.2647E+00	.2375E+00	.2149E+00	.1960E+00	.1799E+00	.1661E+00	.1541E+00	.1437E+00
1.700	.2423E+00	.2192E+00	.1998E+00	.1832E+00	.1691E+00	.1568E+00	.1461E+00	.1367E+00
1.800	.2225E+00	.2028E+00	.1859E+00	.1715E+00	.1590E+00	.1481E+00	.1385E+00	.1300E+00
1.900	.2050E+00	.1880E+00	.1734E+00	.1607E+00	.1497E+00	.1399E+00	.1314E+00	.1237E+00
2.000	.1893E+00	.1746E+00	.1619E+00	.1508E+00	.1410E+00	.1323E+00	.1246E+00	.1177E+00
2.200	.1627E+00	.1516E+00	.1418E+00	.1332E+00	.1254E+00	.1185E+00	.1123E+00	.1066E+00
2.400	.1411E+00	.1326E+00	.1250E+00	.1182E+00	.1120E+00	.1064E+00	.1014E+00	.9673E-01
2.600	.1233E+00	.1168E+00	.1108E+00	.1054E+00	.1004E+00	.9590E-01	.9175E-01	.8793E-01
2.800	.1087E+00	.1035E+00	.9873E-01	.9438E-01	.9038E-01	.8668E-01	.8327E-01	.8010E-01
3.000	.9637E-01	.9224E-01	.8843E-01	.8491E-01	.8164E-01	.7861E-01	.7578E-01	.7314E-01
3.200	.8600E-01	.8267E-01	.7958E-01	.7671E-01	.7402E-01	.7151E-01	.6915E-01	.6694E-01
3.400	.7717E-01	.7447E-01	.7194E-01	.6957E-01	.6735E-01	.6525E-01	.6328E-01	.6142E-01
3.600	.6960E-01	.6739E-01	.6530E-01	.6334E-01	.6148E-01	.5973E-01	.5806E-01	.5649E-01
3.800	.6307E-01	.6124E-01	.5950E-01	.5786E-01	.5630E-01	.5483E-01	.5342E-01	.5208E-01
4.000	.5740E-01	.5587E-01	.5442E-01	.5304E-01	.5172E-01	.5047E-01	.4927E-01	.4813E-01
4.200	.5244E-01	.5116E-01	.4994E-01	.4877E-01	.4765E-01	.4658E-01	.4556E-01	.4458E-01
4.400	.4809E-01	.4701E-01	.4597E-01	.4497E-01	.4402E-01	.4310E-01	.4222E-01	.4138E-01
4.600	.4425E-01	.4333E-01	.4244E-01	.4159E-01	.4077E-01	.3998E-01	.3922E-01	.3849E-01
4.800	.4084E-01	.4006E-01	.3930E-01	.3856E-01	.3786E-01	.3717E-01	.3652E-01	.3588E-01
5.000	.3781E-01	.3713E-01	.3648E-01	.3584E-01	.3523E-01	.3464E-01	.3407E-01	.3351E-01
5.500	.3154E-01	.3106E-01	.3060E-01	.3015E-01	.2972E-01	.2929E-01	.2888E-01	.2848E-01
6.000	.2669E-01	.2635E-01	.2602E-01	.2569E-01	.2537E-01	.2506E-01	.2476E-01	.2446E-01
6.500	.2287E-01	.2262E-01	.2237E-01	.2213E-01	.2189E-01	.2166E-01	.2143E-01	.2121E-01
7.000	.1981E-01	.1962E-01	.1944E-01	.1925E-01	.1907E-01	.1889E-01	.1872E-01	.1855E-01
7.500	.1732E-01	.1718E-01	.1703E-01	.1689E-01	.1675E-01	.1662E-01	.1648E-01	.1635E-01
8.000	.1527E-01	.1516E-01	.1505E-01	.1494E-01	.1483E-01	.1472E-01	.1461E-01	.1451E-01
8.500	.1356E-01	.1347E-01	.1338E-01	.1330E-01	.1321E-01	.1312E-01	.1304E-01	.1296E-01
9.000	.1212E-01	.1205E-01	.1198E-01	.1191E-01	.1184E-01	.1177E-01	.1170E-01	.1164E-01
9.500	.1090E-01	.1084E-01	.1078E-01	.1073E-01	.1067E-01	.1061E-01	.1056E-01	.1050E-01
10.000	.9853E-02	.9806E-02	.9758E-02	.9711E-02	.9665E-02	.9619E-02	.9573E-02	.9528E-02

A(P,X)

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SQRT(X)	A(.5,X)	A(1.0,X)	A(1.5,X)	A(2.0,X)	A(2.5,X)	A(3.0,X)	A(3.5,X)	A(4.0,X)
10.000	.9853E-02	.9806E-02	.9758E-02	.9711E-02	.9665E-02	.9619E-02	.9573E-02	.9528E-02
11.000	.8164E-02	.8131E-02	.8098E-02	.8066E-02	.8034E-02	.8002E-02	.7970E-02	.7939E-02
12.000	.6873E-02	.6850E-02	.6827E-02	.6804E-02	.6781E-02	.6758E-02	.6735E-02	.6713E-02
13.000	.5865E-02	.5848E-02	.5831E-02	.5815E-02	.5798E-02	.5781E-02	.5765E-02	.5748E-02
14.000	.5063E-02	.5051E-02	.5038E-02	.5026E-02	.5013E-02	.5000E-02	.4988E-02	.4976E-02
15.000	.4415E-02	.4405E-02	.4396E-02	.4386E-02	.4377E-02	.4367E-02	.4358E-02	.4348E-02
16.000	.3884E-02	.3876E-02	.3869E-02	.3861E-02	.3854E-02	.3846E-02	.3839E-02	.3832E-02
17.000	.3442E-02	.3437E-02	.3431E-02	.3425E-02	.3419E-02	.3413E-02	.3407E-02	.3402E-02
18.000	.3072E-02	.3068E-02	.3063E-02	.3058E-02	.3054E-02	.3049E-02	.3044E-02	.3040E-02
19.000	.2759E-02	.2755E-02	.2751E-02	.2747E-02	.2744E-02	.2740E-02	.2736E-02	.2732E-02
20.000	.2491E-02	.2488E-02	.2485E-02	.2481E-02	.2478E-02	.2475E-02	.2472E-02	.2469E-02
22.000	.2060E-02	.2058E-02	.2056E-02	.2053E-02	.2051E-02	.2049E-02	.2047E-02	.2045E-02
24.000	.1732E-02	.1730E-02	.1729E-02	.1727E-02	.1726E-02	.1724E-02	.1723E-02	.1721E-02
26.000	.1476E-02	.1475E-02	.1474E-02	.1473E-02	.1472E-02	.1471E-02	.1470E-02	.1468E-02
28.000	.1273E-02	.1272E-02	.1271E-02	.1271E-02	.1270E-02	.1269E-02	.1268E-02	.1267E-02
30.000	.1109E-02	.1109E-02	.1108E-02	.1107E-02	.1107E-02	.1106E-02	.1106E-02	.1105E-02
32.000	.9751E-03	.9747E-03	.9742E-03	.9737E-03	.9732E-03	.9728E-03	.9723E-03	.9718E-03
34.000	.8639E-03	.8636E-03	.8632E-03	.8628E-03	.8624E-03	.8621E-03	.8617E-03	.8613E-03
36.000	.7707E-03	.7704E-03	.7701E-03	.7698E-03	.7695E-03	.7692E-03	.7689E-03	.7686E-03
38.000	.6918E-03	.6916E-03	.6913E-03	.6911E-03	.6908E-03	.6906E-03	.6904E-03	.6901E-03
40.000	.6244E-03	.6242E-03	.6240E-03	.6238E-03	.6236E-03	.6234E-03	.6232E-03	.6231E-03
42.000	.5664E-03	.5663E-03	.5661E-03	.5659E-03	.5658E-03	.5656E-03	.5655E-03	.5653E-03
44.000	.5161E-03	.5160E-03	.5159E-03	.5157E-03	.5156E-03	.5155E-03	.5153E-03	.5152E-03
46.000	.4722E-03	.4721E-03	.4720E-03	.4719E-03	.4718E-03	.4717E-03	.4716E-03	.4715E-03
48.000	.4337E-03	.4337E-03	.4336E-03	.4335E-03	.4334E-03	.4333E-03	.4332E-03	.4331E-03
50.000	.3998E-03	.3997E-03	.3996E-03	.3995E-03	.3994E-03	.3994E-03	.3993E-03	.3992E-03
55.000	.3304E-03	.3304E-03	.3303E-03	.3303E-03	.3302E-03	.3301E-03	.3301E-03	.3300E-03
60.000	.2777E-03	.2776E-03	.2776E-03	.2775E-03	.2775E-03	.2775E-03	.2774E-03	.2774E-03
65.000	.2366E-03	.2366E-03	.2365E-03	.2365E-03	.2365E-03	.2365E-03	.2364E-03	.2364E-03
70.000	.2040E-03	.2040E-03	.2040E-03	.2040E-03	.2039E-03	.2039E-03	.2039E-03	.2039E-03
75.000	.1777E-03	.1777E-03	.1777E-03	.1777E-03	.1777E-03	.1777E-03	.1776E-03	.1776E-03
80.000	.1562E-03	.1562E-03	.1562E-03	.1562E-03	.1562E-03	.1562E-03	.1561E-03	.1561E-03
85.000	.1384E-03	.1384E-03	.1384E-03	.1384E-03	.1383E-03	.1383E-03	.1383E-03	.1383E-03
90.000	.1234E-03	.1234E-03	.1234E-03	.1234E-03	.1234E-03	.1234E-03	.1234E-03	.1234E-03
95.000	.1108E-03	.1108E-03	.1108E-03	.1108E-03	.1108E-03	.1108E-03	.1107E-03	.1107E-03
100.000	.9998E-04	.9998E-04	.9997E-04	.9997E-04	.9996E-04	.9996E-04	.9995E-04	.9995E-04

E(P, X)

SQRT(X)	E(2.5, X)	E(3.0, X)	E(3.5, X)	E(4.0, X)	E(4.5, X)	E(5.0, X)	E(5.5, X)	E(6.0, X)
.00000	.1000E+01	.1000E+01	.1000E+01	.1000E+01	.1000E+01	.1000E+01	.1000E+01	.1000E+01
.00100	.9999E+00	.9999E+00	.9998E+00	.9998E+00	.9997E+00	.9997E+00	.9996E+00	.9995E+00
.00105	.9999E+00	.9999E+00	.9998E+00	.9998E+00	.9997E+00	.9996E+00	.9995E+00	.9994E+00
.00110	.9999E+00	.9999E+00	.9998E+00	.9997E+00	.9997E+00	.9996E+00	.9995E+00	.9994E+00
.00115	.9999E+00	.9998E+00	.9998E+00	.9997E+00	.9996E+00	.9996E+00	.9995E+00	.9993E+00
.00120	.9999E+00	.9998E+00	.9998E+00	.9997E+00	.9996E+00	.9995E+00	.9994E+00	.9993E+00
.00125	.9999E+00	.9998E+00	.9997E+00	.9997E+00	.9996E+00	.9995E+00	.9994E+00	.9992E+00
.00130	.9999E+00	.9998E+00	.9997E+00	.9996E+00	.9995E+00	.9994E+00	.9993E+00	.9992E+00
.00135	.9998E+00	.9998E+00	.9997E+00	.9996E+00	.9995E+00	.9994E+00	.9992E+00	.9991E+00
.00140	.9998E+00	.9998E+00	.9997E+00	.9996E+00	.9995E+00	.9993E+00	.9992E+00	.9990E+00
.00145	.9998E+00	.9997E+00	.9997E+00	.9996E+00	.9994E+00	.9993E+00	.9991E+00	.9989E+00
.00150	.9998E+00	.9997E+00	.9996E+00	.9995E+00	.9994E+00	.9992E+00	.9991E+00	.9989E+00
.00155	.9998E+00	.9997E+00	.9996E+00	.9995E+00	.9994E+00	.9992E+00	.9990E+00	.9988E+00
.00160	.9998E+00	.9997E+00	.9996E+00	.9995E+00	.9993E+00	.9991E+00	.9989E+00	.9987E+00
.00165	.9998E+00	.9997E+00	.9996E+00	.9994E+00	.9993E+00	.9991E+00	.9989E+00	.9986E+00
.00170	.9997E+00	.9997E+00	.9995E+00	.9994E+00	.9992E+00	.9990E+00	.9988E+00	.9985E+00
.00175	.9997E+00	.9996E+00	.9995E+00	.9994E+00	.9992E+00	.9990E+00	.9987E+00	.9985E+00
.00180	.9997E+00	.9996E+00	.9995E+00	.9993E+00	.9991E+00	.9989E+00	.9987E+00	.9984E+00
.00185	.9997E+00	.9996E+00	.9995E+00	.9993E+00	.9991E+00	.9989E+00	.9986E+00	.9983E+00
.00190	.9997E+00	.9996E+00	.9994E+00	.9992E+00	.9990E+00	.9988E+00	.9985E+00	.9982E+00
.00195	.9997E+00	.9995E+00	.9994E+00	.9992E+00	.9990E+00	.9987E+00	.9984E+00	.9981E+00
.00200	.9997E+00	.9995E+00	.9994E+00	.9992E+00	.9989E+00	.9987E+00	.9983E+00	.9980E+00
.00210	.9996E+00	.9995E+00	.9993E+00	.9991E+00	.9988E+00	.9985E+00	.9982E+00	.9978E+00
.00220	.9996E+00	.9994E+00	.9992E+00	.9990E+00	.9987E+00	.9984E+00	.9980E+00	.9976E+00
.00230	.9995E+00	.9994E+00	.9992E+00	.9989E+00	.9986E+00	.9982E+00	.9978E+00	.9974E+00
.00240	.9995E+00	.9993E+00	.9991E+00	.9988E+00	.9985E+00	.9981E+00	.9976E+00	.9971E+00
.00250	.9995E+00	.9993E+00	.9990E+00	.9987E+00	.9983E+00	.9979E+00	.9974E+00	.9969E+00
.00260	.9994E+00	.9992E+00	.9989E+00	.9986E+00	.9982E+00	.9977E+00	.9972E+00	.9966E+00
.00270	.9994E+00	.9991E+00	.9988E+00	.9985E+00	.9981E+00	.9976E+00	.9970E+00	.9964E+00
.00280	.9993E+00	.9991E+00	.9987E+00	.9984E+00	.9979E+00	.9974E+00	.9968E+00	.9961E+00
.00290	.9993E+00	.9990E+00	.9987E+00	.9982E+00	.9978E+00	.9972E+00	.9965E+00	.9958E+00
.00300	.9992E+00	.9989E+00	.9986E+00	.9981E+00	.9976E+00	.9970E+00	.9963E+00	.9955E+00
.00310	.9992E+00	.9989E+00	.9985E+00	.9980E+00	.9974E+00	.9968E+00	.9961E+00	.9952E+00
.00320	.9991E+00	.9988E+00	.9984E+00	.9979E+00	.9973E+00	.9966E+00	.9958E+00	.9949E+00
.00330	.9991E+00	.9987E+00	.9983E+00	.9977E+00	.9971E+00	.9964E+00	.9955E+00	.9946E+00
.00340	.9990E+00	.9986E+00	.9982E+00	.9976E+00	.9969E+00	.9962E+00	.9953E+00	.9943E+00
.00350	.9989E+00	.9985E+00	.9980E+00	.9974E+00	.9967E+00	.9959E+00	.9950E+00	.9939E+00

E(P,X)

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SQRT(X)	E(2.5,X)	E(3.0,X)	E(3.5,X)	E(4.0,X)	E(4.5,X)	E(5.0,X)	E(5.5,X)	E(6.0,X)
.00350	.9989E+00	.9985E+00	.9980E+00	.9974E+00	.9967E+00	.9959E+00	.9950E+00	.9939E+00
.00360	.9989E+00	.9985E+00	.9979E+00	.9973E+00	.9966E+00	.9957E+00	.9947E+00	.9936E+00
.00370	.9988E+00	.9984E+00	.9978E+00	.9972E+00	.9964E+00	.9955E+00	.9944E+00	.9932E+00
.00380	.9988E+00	.9983E+00	.9977E+00	.9970E+00	.9962E+00	.9952E+00	.9941E+00	.9929E+00
.00390	.9987E+00	.9982E+00	.9976E+00	.9968E+00	.9960E+00	.9950E+00	.9938E+00	.9925E+00
.00400	.9986E+00	.9981E+00	.9974E+00	.9967E+00	.9958E+00	.9947E+00	.9935E+00	.9921E+00
.00410	.9986E+00	.9980E+00	.9973E+00	.9965E+00	.9956E+00	.9944E+00	.9932E+00	.9917E+00
.00420	.9985E+00	.9979E+00	.9972E+00	.9963E+00	.9953E+00	.9942E+00	.9928E+00	.9913E+00
.00430	.9984E+00	.9978E+00	.9971E+00	.9962E+00	.9951E+00	.9939E+00	.9925E+00	.9909E+00
.00440	.9983E+00	.9977E+00	.9969E+00	.9960E+00	.9949E+00	.9936E+00	.9921E+00	.9905E+00
.00450	.9983E+00	.9976E+00	.9968E+00	.9958E+00	.9947E+00	.9933E+00	.9918E+00	.9901E+00
.00460	.9982E+00	.9975E+00	.9966E+00	.9956E+00	.9944E+00	.9930E+00	.9914E+00	.9896E+00
.00470	.9981E+00	.9974E+00	.9965E+00	.9954E+00	.9942E+00	.9927E+00	.9911E+00	.9892E+00
.00480	.9980E+00	.9973E+00	.9963E+00	.9952E+00	.9939E+00	.9924E+00	.9907E+00	.9887E+00
.00490	.9979E+00	.9972E+00	.9962E+00	.9950E+00	.9937E+00	.9921E+00	.9903E+00	.9883E+00
.00500	.9979E+00	.9970E+00	.9960E+00	.9948E+00	.9934E+00	.9918E+00	.9899E+00	.9878E+00
.00520	.9977E+00	.9968E+00	.9957E+00	.9944E+00	.9929E+00	.9911E+00	.9891E+00	.9868E+00
.00540	.9975E+00	.9966E+00	.9954E+00	.9940E+00	.9924E+00	.9905E+00	.9883E+00	.9858E+00
.00560	.9973E+00	.9963E+00	.9950E+00	.9936E+00	.9918E+00	.9898E+00	.9874E+00	.9848E+00
.00580	.9971E+00	.9960E+00	.9947E+00	.9931E+00	.9912E+00	.9890E+00	.9866E+00	.9837E+00
.00600	.9969E+00	.9958E+00	.9943E+00	.9926E+00	.9906E+00	.9883E+00	.9857E+00	.9826E+00
.00620	.9967E+00	.9955E+00	.9940E+00	.9921E+00	.9900E+00	.9875E+00	.9847E+00	.9815E+00
.00640	.9965E+00	.9952E+00	.9936E+00	.9916E+00	.9894E+00	.9868E+00	.9838E+00	.9804E+00
.00660	.9963E+00	.9949E+00	.9932E+00	.9911E+00	.9887E+00	.9859E+00	.9828E+00	.9792E+00
.00680	.9961E+00	.9946E+00	.9928E+00	.9906E+00	.9881E+00	.9851E+00	.9818E+00	.9780E+00
.00700	.9958E+00	.9943E+00	.9923E+00	.9900E+00	.9874E+00	.9843E+00	.9807E+00	.9767E+00
.00720	.9956E+00	.9939E+00	.9919E+00	.9895E+00	.9867E+00	.9834E+00	.9797E+00	.9755E+00
.00740	.9954E+00	.9936E+00	.9915E+00	.9889E+00	.9859E+00	.9825E+00	.9786E+00	.9742E+00
.00760	.9951E+00	.9933E+00	.9910E+00	.9883E+00	.9852E+00	.9816E+00	.9775E+00	.9728E+00
.00780	.9949E+00	.9929E+00	.9905E+00	.9877E+00	.9844E+00	.9807E+00	.9763E+00	.9715E+00
.00800	.9946E+00	.9925E+00	.9901E+00	.9871E+00	.9837E+00	.9797E+00	.9752E+00	.9701E+00
.00820	.9943E+00	.9922E+00	.9896E+00	.9865E+00	.9829E+00	.9787E+00	.9740E+00	.9687E+00
.00840	.9941E+00	.9918E+00	.9891E+00	.9859E+00	.9821E+00	.9777E+00	.9728E+00	.9673E+00
.00860	.9938E+00	.9914E+00	.9886E+00	.9852E+00	.9813E+00	.9767E+00	.9716E+00	.9658E+00
.00880	.9935E+00	.9910E+00	.9881E+00	.9845E+00	.9804E+00	.9757E+00	.9703E+00	.9643E+00
.00900	.9932E+00	.9906E+00	.9875E+00	.9839E+00	.9796E+00	.9747E+00	.9691E+00	.9628E+00
.00920	.9929E+00	.9902E+00	.9870E+00	.9832E+00	.9787E+00	.9736E+00	.9678E+00	.9613E+00
.00940	.9926E+00	.9898E+00	.9865E+00	.9825E+00	.9778E+00	.9725E+00	.9665E+00	.9597E+00
.00960	.9923E+00	.9894E+00	.9859E+00	.9818E+00	.9770E+00	.9714E+00	.9652E+00	.9582E+00
.00980	.9920E+00	.9890E+00	.9853E+00	.9810E+00	.9760E+00	.9703E+00	.9638E+00	.9566E+00
.01000	.9917E+00	.9885E+00	.9848E+00	.9803E+00	.9751E+00	.9692E+00	.9625E+00	.9550E+00

E(P, X)

SQRT(X)	E(2.5, X)	E(3.0, X)	E(3.5, X)	E(4.0, X)	E(4.5, X)	E(5.0, X)	E(5.5, X)	E(6.0, X)
.01000	.9917E+00	.9885E+00	.9848E+00	.9803E+00	.9751E+00	.9692E+00	.9625E+00	.9550E+00
.01050	.9908E+00	.9874E+00	.9833E+00	.9784E+00	.9728E+00	.9663E+00	.9590E+00	.9508E+00
.01100	.9900E+00	.9863E+00	.9818E+00	.9765E+00	.9703E+00	.9633E+00	.9554E+00	.9466E+00
.01150	.9891E+00	.9850E+00	.9802E+00	.9744E+00	.9678E+00	.9602E+00	.9517E+00	.9422E+00
.01200	.9882E+00	.9838E+00	.9785E+00	.9723E+00	.9652E+00	.9571E+00	.9479E+00	.9378E+00
.01250	.9872E+00	.9825E+00	.9768E+00	.9702E+00	.9625E+00	.9538E+00	.9440E+00	.9332E+00
.01300	.9862E+00	.9812E+00	.9751E+00	.9680E+00	.9598E+00	.9505E+00	.9401E+00	.9286E+00
.01350	.9852E+00	.9798E+00	.9733E+00	.9657E+00	.9570E+00	.9471E+00	.9360E+00	.9238E+00
.01400	.9842E+00	.9784E+00	.9715E+00	.9634E+00	.9541E+00	.9436E+00	.9319E+00	.9190E+00
.01450	.9831E+00	.9769E+00	.9696E+00	.9610E+00	.9511E+00	.9400E+00	.9277E+00	.9141E+00
.01500	.9820E+00	.9755E+00	.9677E+00	.9586E+00	.9482E+00	.9364E+00	.9234E+00	.9092E+00
.01550	.9809E+00	.9739E+00	.9657E+00	.9561E+00	.9451E+00	.9328E+00	.9191E+00	.9041E+00
.01600	.9797E+00	.9724E+00	.9637E+00	.9535E+00	.9420E+00	.9290E+00	.9147E+00	.8991E+00
.01650	.9785E+00	.9708E+00	.9616E+00	.9510E+00	.9389E+00	.9253E+00	.9103E+00	.8939E+00
.01700	.9773E+00	.9692E+00	.9595E+00	.9484E+00	.9357E+00	.9215E+00	.9058E+00	.8888E+00
.01750	.9761E+00	.9675E+00	.9574E+00	.9457E+00	.9324E+00	.9176E+00	.9013E+00	.8836E+00
.01800	.9748E+00	.9659E+00	.9552E+00	.9430E+00	.9291E+00	.9137E+00	.8967E+00	.8783E+00
.01850	.9736E+00	.9641E+00	.9531E+00	.9403E+00	.9258E+00	.9097E+00	.8921E+00	.8730E+00
.01900	.9722E+00	.9624E+00	.9508E+00	.9375E+00	.9225E+00	.9057E+00	.8875E+00	.8677E+00
.01950	.9709E+00	.9606E+00	.9486E+00	.9347E+00	.9191E+00	.9017E+00	.8828E+00	.8624E+00
.02000	.9696E+00	.9589E+00	.9463E+00	.9319E+00	.9156E+00	.8977E+00	.8781E+00	.8571E+00
.02100	.9668E+00	.9552E+00	.9416E+00	.9261E+00	.9087E+00	.8895E+00	.8687E+00	.8463E+00
.02200	.9640E+00	.9515E+00	.9369E+00	.9202E+00	.9017E+00	.8812E+00	.8591E+00	.8355E+00
.02300	.9611E+00	.9476E+00	.9320E+00	.9143E+00	.8945E+00	.8729E+00	.8496E+00	.8247E+00
.02400	.9581E+00	.9437E+00	.9271E+00	.9083E+00	.8873E+00	.8645E+00	.8400E+00	.8139E+00
.02500	.9550E+00	.9398E+00	.9221E+00	.9021E+00	.8801E+00	.8560E+00	.8303E+00	.8032E+00
.02600	.9519E+00	.9357E+00	.9170E+00	.8960E+00	.8727E+00	.8476E+00	.8207E+00	.7925E+00
.02700	.9488E+00	.9316E+00	.9119E+00	.8897E+00	.8654E+00	.8391E+00	.8111E+00	.7818E+00
.02800	.9456E+00	.9274E+00	.9067E+00	.8835E+00	.8580E+00	.8306E+00	.8016E+00	.7712E+00
.02900	.9423E+00	.9232E+00	.9014E+00	.8772E+00	.8506E+00	.8221E+00	.7920E+00	.7607E+00
.03000	.9390E+00	.9190E+00	.8962E+00	.8708E+00	.8432E+00	.8137E+00	.7826E+00	.7503E+00
.03100	.9356E+00	.9147E+00	.8909E+00	.8645E+00	.8358E+00	.8052E+00	.7731E+00	.7399E+00
.03200	.9322E+00	.9103E+00	.8855E+00	.8581E+00	.8284E+00	.7968E+00	.7638E+00	.7297E+00
.03300	.9288E+00	.9060E+00	.8801E+00	.8517E+00	.8210E+00	.7884E+00	.7545E+00	.7196E+00
.03400	.9254E+00	.9016E+00	.8748E+00	.8453E+00	.8136E+00	.7801E+00	.7453E+00	.7096E+00
.03500	.9219E+00	.8971E+00	.8694E+00	.8389E+00	.8063E+00	.7719E+00	.7362E+00	.6997E+00

SQRT(X)	E(2.5, X)	E(3.0, X)	E(3.5, X)	E(4.0, X)	E(4.5, X)	E(5.0, X)	E(5.5, X)	E(6.0, X)
.03500	.9219E+00	.8971E+00	.8694E+00	.8389E+00	.8063E+00	.7719E+00	.7362E+00	.6997E+00
.03600	.9184E+00	.8927E+00	.8639E+00	.8325E+00	.7989E+00	.7636E+00	.7272E+00	.6900E+00
.03700	.9148E+00	.8882E+00	.8585E+00	.8262E+00	.7916E+00	.7555E+00	.7182E+00	.6804E+00
.03800	.9113E+00	.8837E+00	.8531E+00	.8198E+00	.7844E+00	.7474E+00	.7094E+00	.6709E+00
.03900	.9077E+00	.8793E+00	.8477E+00	.8135E+00	.7772E+00	.7394E+00	.7007E+00	.6616E+00
.04000	.9041E+00	.8747E+00	.8422E+00	.8071E+00	.7700E+00	.7314E+00	.6920E+00	.6523E+00
.04100	.9005E+00	.8702E+00	.8368E+00	.8008E+00	.7629E+00	.7236E+00	.6835E+00	.6433E+00
.04200	.8968E+00	.8657E+00	.8314E+00	.7946E+00	.7558E+00	.7158E+00	.6751E+00	.6343E+00
.04300	.8932E+00	.8612E+00	.8260E+00	.7883E+00	.7488E+00	.7081E+00	.6668E+00	.6255E+00
.04400	.8896E+00	.8567E+00	.8206E+00	.7821E+00	.7418E+00	.7004E+00	.6586E+00	.6169E+00
.04500	.8859E+00	.8522E+00	.8153E+00	.7760E+00	.7349E+00	.6929E+00	.6505E+00	.6084E+00
.04600	.8822E+00	.8477E+00	.8099E+00	.7698E+00	.7281E+00	.6854E+00	.6425E+00	.6000E+00
.04700	.8786E+00	.8431E+00	.8046E+00	.7637E+00	.7213E+00	.6780E+00	.6346E+00	.5917E+00
.04800	.8749E+00	.8386E+00	.7993E+00	.7577E+00	.7145E+00	.6707E+00	.6269E+00	.5836E+00
.04900	.8712E+00	.8341E+00	.7940E+00	.7516E+00	.7079E+00	.6635E+00	.6192E+00	.5756E+00
.05000	.8675E+00	.8297E+00	.7887E+00	.7457E+00	.7013E+00	.6564E+00	.6117E+00	.5678E+00
.05200	.8602E+00	.8207E+00	.7783E+00	.7339E+00	.6883E+00	.6424E+00	.5969E+00	.5525E+00
.05400	.8528E+00	.8118E+00	.7680E+00	.7222E+00	.6755E+00	.6287E+00	.5826E+00	.5377E+00
.05600	.8455E+00	.8030E+00	.7578E+00	.7108E+00	.6630E+00	.6154E+00	.5687E+00	.5234E+00
.05800	.8382E+00	.7943E+00	.7477E+00	.6995E+00	.6508E+00	.6024E+00	.5552E+00	.5096E+00
.06000	.8309E+00	.7856E+00	.7377E+00	.6885E+00	.6388E+00	.5898E+00	.5421E+00	.4963E+00
.06200	.8237E+00	.7770E+00	.7279E+00	.6776E+00	.6271E+00	.5775E+00	.5294E+00	.4834E+00
.06400	.8165E+00	.7685E+00	.7182E+00	.6669E+00	.6157E+00	.5655E+00	.5171E+00	.4710E+00
.06600	.8094E+00	.7601E+00	.7087E+00	.6565E+00	.6045E+00	.5539E+00	.5052E+00	.4590E+00
.06800	.8023E+00	.7518E+00	.6993E+00	.6462E+00	.5936E+00	.5425E+00	.4936E+00	.4474E+00
.07000	.7952E+00	.7435E+00	.6900E+00	.6361E+00	.5830E+00	.5315E+00	.4824E+00	.4362E+00
.07200	.7883E+00	.7354E+00	.6809E+00	.6263E+00	.5726E+00	.5207E+00	.4715E+00	.4254E+00
.07400	.7813E+00	.7274E+00	.6720E+00	.6166E+00	.5624E+00	.5103E+00	.4610E+00	.4149E+00
.07600	.7745E+00	.7194E+00	.6632E+00	.6071E+00	.5525E+00	.5001E+00	.4508E+00	.4048E+00
.07800	.7677E+00	.7116E+00	.6545E+00	.5978E+00	.5428E+00	.4902E+00	.4408E+00	.3950E+00
.08000	.7609E+00	.7039E+00	.6460E+00	.5887E+00	.5333E+00	.4806E+00	.4312E+00	.3856E+00
.08200	.7543E+00	.6962E+00	.6376E+00	.5798E+00	.5240E+00	.4712E+00	.4219E+00	.3765E+00
.08400	.7476E+00	.6887E+00	.6294E+00	.5711E+00	.5150E+00	.4621E+00	.4129E+00	.3676E+00
.08600	.7411E+00	.6813E+00	.6213E+00	.5625E+00	.5062E+00	.4532E+00	.4041E+00	.3591E+00
.08800	.7346E+00	.6740E+00	.6133E+00	.5541E+00	.4976E+00	.4446E+00	.3956E+00	.3508E+00
.09000	.7282E+00	.6668E+00	.6055E+00	.5459E+00	.4892E+00	.4362E+00	.3873E+00	.3428E+00
.09200	.7219E+00	.6597E+00	.5978E+00	.5379E+00	.4810E+00	.4280E+00	.3793E+00	.3351E+00
.09400	.7156E+00	.6526E+00	.5902E+00	.5300E+00	.4730E+00	.4200E+00	.3715E+00	.3276E+00
.09600	.7095E+00	.6457E+00	.5828E+00	.5223E+00	.4652E+00	.4123E+00	.3639E+00	.3203E+00
.09800	.7033E+00	.6389E+00	.5755E+00	.5147E+00	.4575E+00	.4047E+00	.3566E+00	.3133E+00
.10000	.6973E+00	.6322E+00	.5684E+00	.5073E+00	.4501E+00	.3973E+00	.3495E+00	.3065E+00

E(P,X)

SQRT(X)	E(2.5,X)	E(3.0,X)	E(3.5,X)	E(4.0,X)	E(4.5,X)	E(5.0,X)	E(5.5,X)	E(6.0,X)
.10000	.6973E+00	.6322E+00	.5684E+00	.5073E+00	.4501E+00	.3973E+00	.3495E+00	.3065E+00
.10500	.6825E+00	.6159E+00	.5510E+00	.4894E+00	.4321E+00	.3797E+00	.3325E+00	.2904E+00
.11000	.6681E+00	.6001E+00	.5344E+00	.4725E+00	.4152E+00	.3632E+00	.3167E+00	.2754E+00
.11500	.6541E+00	.5849E+00	.5185E+00	.4563E+00	.3993E+00	.3478E+00	.3019E+00	.2616E+00
.12000	.6406E+00	.5703E+00	.5033E+00	.4410E+00	.3842E+00	.3332E+00	.2882E+00	.2487E+00
.12500	.6274E+00	.5562E+00	.4887E+00	.4264E+00	.3699E+00	.3196E+00	.2753E+00	.2367E+00
.13000	.6147E+00	.5426E+00	.4748E+00	.4125E+00	.3564E+00	.3067E+00	.2632E+00	.2256E+00
.13500	.6023E+00	.5295E+00	.4614E+00	.3992E+00	.3436E+00	.2946E+00	.2519E+00	.2151E+00
.14000	.5903E+00	.5168E+00	.4486E+00	.3866E+00	.3315E+00	.2831E+00	.2413E+00	.2054E+00
.14500	.5787E+00	.5047E+00	.4363E+00	.3746E+00	.3200E+00	.2724E+00	.2313E+00	.1963E+00
.15000	.5674E+00	.4929E+00	.4245E+00	.3631E+00	.3091E+00	.2622E+00	.2220E+00	.1878E+00
.15500	.5564E+00	.4816E+00	.4132E+00	.3521E+00	.2987E+00	.2525E+00	.2131E+00	.1798E+00
.16000	.5458E+00	.4706E+00	.4023E+00	.3417E+00	.2888E+00	.2434E+00	.2048E+00	.1723E+00
.16500	.5355E+00	.4601E+00	.3919E+00	.3317E+00	.2794E+00	.2347E+00	.1970E+00	.1653E+00
.17000	.5255E+00	.4499E+00	.3819E+00	.3221E+00	.2705E+00	.2265E+00	.1895E+00	.1586E+00
.17500	.5158E+00	.4400E+00	.3722E+00	.3129E+00	.2619E+00	.2187E+00	.1825E+00	.1524E+00
.18000	.5064E+00	.4305E+00	.3630E+00	.3041E+00	.2538E+00	.2114E+00	.1759E+00	.1465E+00
.18500	.4972E+00	.4213E+00	.3540E+00	.2957E+00	.2461E+00	.2043E+00	.1696E+00	.1409E+00
.19000	.4883E+00	.4124E+00	.3454E+00	.2877E+00	.2387E+00	.1976E+00	.1636E+00	.1356E+00
.19500	.4797E+00	.4038E+00	.3372E+00	.2799E+00	.2316E+00	.1913E+00	.1580E+00	.1307E+00
.20000	.4712E+00	.3955E+00	.3292E+00	.2725E+00	.2248E+00	.1852E+00	.1526E+00	.1259E+00
.21000	.4551E+00	.3796E+00	.3141E+00	.2585E+00	.2121E+00	.1739E+00	.1426E+00	.1172E+00
.22000	.4399E+00	.3647E+00	.3000E+00	.2456E+00	.2005E+00	.1636E+00	.1336E+00	.1094E+00
.23000	.4254E+00	.3507E+00	.2869E+00	.2336E+00	.1898E+00	.1541E+00	.1254E+00	.1023E+00
.24000	.4118E+00	.3375E+00	.2747E+00	.2225E+00	.1799E+00	.1455E+00	.1179E+00	.9584E-01
.25000	.3988E+00	.3251E+00	.2632E+00	.2122E+00	.1708E+00	.1376E+00	.1110E+00	.8998E-01
.26000	.3864E+00	.3134E+00	.2525E+00	.2026E+00	.1624E+00	.1303E+00	.1048E+00	.8464E-01
.27000	.3747E+00	.3024E+00	.2424E+00	.1936E+00	.1545E+00	.1235E+00	.9902E-01	.7975E-01
.28000	.3636E+00	.2919E+00	.2329E+00	.1853E+00	.1473E+00	.1173E+00	.9371E-01	.7526E-01
.29000	.3529E+00	.2820E+00	.2240E+00	.1774E+00	.1405E+00	.1115E+00	.8882E-01	.7114E-01
.30000	.3428E+00	.2727E+00	.2156E+00	.1701E+00	.1342E+00	.1061E+00	.8430E-01	.6735E-01
.31000	.3331E+00	.2638E+00	.2077E+00	.1632E+00	.1283E+00	.1011E+00	.8011E-01	.6384E-01
.32000	.3239E+00	.2554E+00	.2003E+00	.1567E+00	.1228E+00	.9649E-01	.7622E-01	.6060E-01
.33000	.3151E+00	.2473E+00	.1932E+00	.1506E+00	.1176E+00	.9216E-01	.7260E-01	.5760E-01
.34000	.3067E+00	.2397E+00	.1865E+00	.1449E+00	.1128E+00	.8810E-01	.6924E-01	.5481E-01
.35000	.2986E+00	.2325E+00	.1802E+00	.1395E+00	.1082E+00	.8431E-01	.6610E-01	.5221E-01

SQRT(X)	E(2.5,X)	E(3.0,X)	E(3.5,X)	E(4.0,X)	E(4.5,X)	E(5.0,X)	E(5.5,X)	E(6.0,X)
.35000	.2986E+00	.2325E+00	.1802E+00	.1395E+00	.1082E+00	.8431E-01	.6610E-01	.5221E-01
.36000	.2909E+00	.2255E+00	.1742E+00	.1344E+00	.1039E+00	.8076E-01	.6317E-01	.4980E-01
.37000	.2835E+00	.2190E+00	.1685E+00	.1296E+00	.9991E-01	.7743E-01	.6042E-01	.4754E-01
.38000	.2764E+00	.2127E+00	.1630E+00	.1250E+00	.9610E-01	.7429E-01	.5785E-01	.4544E-01
.39000	.2695E+00	.2066E+00	.1579E+00	.1207E+00	.9252E-01	.7135E-01	.5544E-01	.4347E-01
.40000	.2630E+00	.2009E+00	.1530E+00	.1166E+00	.8913E-01	.6857E-01	.5318E-01	.4162E-01
.41000	.2567E+00	.1954E+00	.1483E+00	.1127E+00	.8592E-01	.6595E-01	.5104E-01	.3989E-01
.42000	.2507E+00	.1901E+00	.1438E+00	.1090E+00	.8289E-01	.6348E-01	.4904E-01	.3826E-01
.43000	.2448E+00	.1851E+00	.1396E+00	.1054E+00	.8001E-01	.6114E-01	.4715E-01	.3673E-01
.44000	.2392E+00	.1802E+00	.1355E+00	.1021E+00	.7728E-01	.5894E-01	.4536E-01	.3529E-01
.45000	.2338E+00	.1756E+00	.1316E+00	.9889E-01	.7469E-01	.5684E-01	.4368E-01	.3393E-01
.46000	.2286E+00	.1711E+00	.1279E+00	.9585E-01	.7222E-01	.5486E-01	.4208E-01	.3264E-01
.47000	.2236E+00	.1669E+00	.1244E+00	.9295E-01	.6988E-01	.5298E-01	.4057E-01	.3143E-01
.48000	.2188E+00	.1628E+00	.1210E+00	.9018E-01	.6765E-01	.5119E-01	.3914E-01	.3028E-01
.49000	.2141E+00	.1588E+00	.1177E+00	.8753E-01	.6552E-01	.4949E-01	.3779E-01	.2920E-01
.50000	.2096E+00	.1550E+00	.1146E+00	.8500E-01	.6349E-01	.4787E-01	.3650E-01	.2817E-01
.52000	.2010E+00	.1478E+00	.1087E+00	.8026E-01	.5971E-01	.4487E-01	.3411E-01	.2626E-01
.54000	.1930E+00	.1411E+00	.1033E+00	.7591E-01	.5626E-01	.4214E-01	.3195E-01	.2454E-01
.56000	.1855E+00	.1349E+00	.9823E-01	.7191E-01	.5310E-01	.3965E-01	.2998E-01	.2299E-01
.58000	.1784E+00	.1291E+00	.9357E-01	.6822E-01	.5020E-01	.3737E-01	.2819E-01	.2157E-01
.60000	.1718E+00	.1237E+00	.8925E-01	.6481E-01	.4753E-01	.3528E-01	.2656E-01	.2028E-01
.62000	.1656E+00	.1186E+00	.8522E-01	.6165E-01	.4506E-01	.3336E-01	.2506E-01	.1911E-01
.64000	.1597E+00	.1139E+00	.8147E-01	.5872E-01	.4279E-01	.3160E-01	.2368E-01	.1803E-01
.66000	.1542E+00	.1094E+00	.7796E-01	.5599E-01	.4068E-01	.2997E-01	.2242E-01	.1704E-01
.68000	.1489E+00	.1052E+00	.7468E-01	.5345E-01	.3872E-01	.2846E-01	.2125E-01	.1613E-01
.70000	.1440E+00	.1013E+00	.7161E-01	.5109E-01	.3691E-01	.2706E-01	.2017E-01	.1528E-01
.72000	.1393E+00	.9758E-01	.6873E-01	.4887E-01	.3521E-01	.2576E-01	.1917E-01	.1451E-01
.74000	.1348E+00	.9408E-01	.6602E-01	.4680E-01	.3363E-01	.2456E-01	.1824E-01	.1379E-01
.76000	.1306E+00	.9076E-01	.6347E-01	.4486E-01	.3216E-01	.2343E-01	.1738E-01	.1312E-01
.78000	.1266E+00	.8763E-01	.6107E-01	.4304E-01	.3078E-01	.2238E-01	.1657E-01	.1250E-01
.80000	.1227E+00	.8466E-01	.5881E-01	.4133E-01	.2948E-01	.2140E-01	.1582E-01	.1192E-01
.82000	.1191E+00	.8185E-01	.5667E-01	.3972E-01	.2827E-01	.2048E-01	.1512E-01	.1138E-01
.84000	.1156E+00	.7918E-01	.5465E-01	.3820E-01	.2713E-01	.1962E-01	.1447E-01	.1088E-01
.86000	.1123E+00	.7664E-01	.5273E-01	.3677E-01	.2606E-01	.1882E-01	.1386E-01	.1040E-01
.88000	.1092E+00	.7423E-01	.5092E-01	.3541E-01	.2505E-01	.1806E-01	.1328E-01	.9962E-02
.90000	.1061E+00	.7193E-01	.4920E-01	.3413E-01	.2410E-01	.1734E-01	.1274E-01	.9548E-02
.92000	.1033E+00	.6975E-01	.4757E-01	.3292E-01	.2320E-01	.1667E-01	.1223E-01	.9159E-02
.94000	.1005E+00	.6766E-01	.4602E-01	.3178E-01	.2235E-01	.1604E-01	.1175E-01	.8793E-02
.96000	.9785E-01	.6567E-01	.4455E-01	.3069E-01	.2154E-01	.1544E-01	.1130E-01	.8448E-02
.98000	.9531E-01	.6377E-01	.4315E-01	.2966E-01	.2078E-01	.1487E-01	.1087E-01	.8124E-02
1.00000	.9288E-01	.6196E-01	.4181E-01	.2868E-01	.2006E-01	.1433E-01	.1047E-01	.7817E-02

E(P,x)

SQRT(X)	E(2.5,X)	E(3.0,X)	E(3.5,X)	E(4.0,X)	E(4.5,X)	E(5.0,X)	E(5.5,X)	E(6.0,X)
1.00000	.9288E-01	.6196E-01	.4181E-01	.2868E-01	.2006E-01	.1433E-01	.1047E-01	.7817E-02
1.05000	.8721E-01	.5776E-01	.3873E-01	.2643E-01	.1841E-01	.1311E-01	.9558E-02	.7122E-02
1.10000	.8208E-01	.5398E-01	.3599E-01	.2444E-01	.1696E-01	.1204E-01	.8757E-02	.6515E-02
1.15000	.7741E-01	.5058E-01	.3353E-01	.2266E-01	.1567E-01	.1110E-01	.8053E-02	.5983E-02
1.20000	.7316E-01	.4749E-01	.3131E-01	.2107E-01	.1452E-01	.1026E-01	.7430E-02	.5512E-02
1.25000	.6926E-01	.4469E-01	.2932E-01	.1965E-01	.1350E-01	.9511E-02	.6876E-02	.5095E-02
1.30000	.6569E-01	.4214E-01	.2751E-01	.1836E-01	.1257E-01	.8841E-02	.6382E-02	.4723E-02
1.35000	.6240E-01	.3981E-01	.2586E-01	.1720E-01	.1174E-01	.8240E-02	.5939E-02	.4390E-02
1.40000	.5936E-01	.3767E-01	.2437E-01	.1615E-01	.1099E-01	.7698E-02	.5540E-02	.4092E-02
1.45000	.5656E-01	.3570E-01	.2299E-01	.1519E-01	.1031E-01	.7208E-02	.5180E-02	.3822E-02
1.50000	.5396E-01	.3389E-01	.2174E-01	.1431E-01	.9694E-02	.6762E-02	.4854E-02	.3578E-02
1.55000	.5154E-01	.3222E-01	.2058E-01	.1351E-01	.9128E-02	.6357E-02	.4557E-02	.3357E-02
1.60000	.4929E-01	.3067E-01	.1952E-01	.1277E-01	.8610E-02	.5987E-02	.4287E-02	.3155E-02
1.65000	.4719E-01	.2923E-01	.1853E-01	.1209E-01	.8136E-02	.5648E-02	.4040E-02	.2971E-02
1.70000	.4523E-01	.2789E-01	.1762E-01	.1147E-01	.7699E-02	.5337E-02	.3814E-02	.2803E-02
1.75000	.4340E-01	.2665E-01	.1678E-01	.1089E-01	.7296E-02	.5051E-02	.3606E-02	.2649E-02
1.80000	.4168E-01	.2549E-01	.1600E-01	.1035E-01	.6925E-02	.4787E-02	.3414E-02	.2506E-02
1.85000	.4007E-01	.2440E-01	.1527E-01	.9856E-02	.6580E-02	.4543E-02	.3238E-02	.2375E-02
1.90000	.3855E-01	.2339E-01	.1459E-01	.9394E-02	.6261E-02	.4318E-02	.3075E-02	.2254E-02
1.95000	.3712E-01	.2244E-01	.1395E-01	.8964E-02	.5965E-02	.4108E-02	.2923E-02	.2142E-02
2.00000	.3577E-01	.2155E-01	.1336E-01	.8563E-02	.5689E-02	.3914E-02	.2783E-02	.2038E-02
2.10000	.3330E-01	.1992E-01	.1228E-01	.7838E-02	.5191E-02	.3564E-02	.2531E-02	.1852E-02
2.20000	.3109E-01	.1847E-01	.1132E-01	.7201E-02	.4756E-02	.3259E-02	.2311E-02	.1690E-02
2.30000	.2910E-01	.1718E-01	.1048E-01	.6639E-02	.4373E-02	.2991E-02	.2119E-02	.1548E-02
2.40000	.2730E-01	.1602E-01	.9727E-02	.6140E-02	.4035E-02	.2755E-02	.1949E-02	.1424E-02
2.50000	.2567E-01	.1498E-01	.9053E-02	.5696E-02	.3734E-02	.2546E-02	.1800E-02	.1313E-02
2.60000	.2419E-01	.1403E-01	.8447E-02	.5298E-02	.3466E-02	.2360E-02	.1666E-02	.1215E-02
2.70000	.2284E-01	.1318E-01	.7901E-02	.4941E-02	.3225E-02	.2193E-02	.1547E-02	.1128E-02
2.80000	.2161E-01	.1240E-01	.7406E-02	.4618E-02	.3009E-02	.2043E-02	.1441E-02	.1050E-02
2.90000	.2047E-01	.1169E-01	.6956E-02	.4326E-02	.2813E-02	.1908E-02	.1345E-02	.9793E-03
3.00000	.1943E-01	.1105E-01	.6547E-02	.4061E-02	.2637E-02	.1786E-02	.1258E-02	.9157E-03
3.10000	.1847E-01	.1045E-01	.6173E-02	.3820E-02	.2476E-02	.1676E-02	.1179E-02	.8581E-03
3.20000	.1757E-01	.9903E-02	.5830E-02	.3599E-02	.2329E-02	.1575E-02	.1108E-02	.8057E-03
3.30000	.1675E-01	.9398E-02	.5515E-02	.3397E-02	.2195E-02	.1483E-02	.1042E-02	.7580E-03
3.40000	.1598E-01	.8932E-02	.5226E-02	.3212E-02	.2073E-02	.1399E-02	.9827E-03	.7144E-03
3.50000	.1527E-01	.8500E-02	.4958E-02	.3041E-02	.1960E-02	.1322E-02	.9280E-03	.6745E-03

SQRT(X)	E(2.5,X)	E(3.0,X)	E(3.5,X)	E(4.0,X)	E(4.5,X)	E(5.0,X)	E(5.5,X)	E(6.0,X)
3.50000	.1527E-01	.8500E-02	.4958E-02	.3041E-02	.1960E-02	.1322E-02	.9280E-03	.6745E-03
3.60000	.1461E-01	.8099E-02	.4711E-02	.2884E-02	.1856E-02	.1251E-02	.8777E-03	.6378E-03
3.70000	.1399E-01	.7726E-02	.4482E-02	.2738E-02	.1760E-02	.1185E-02	.8314E-03	.6040E-03
3.80000	.1341E-01	.7379E-02	.4269E-02	.2604E-02	.1672E-02	.1125E-02	.7887E-03	.5728E-03
3.90000	.1286E-01	.7055E-02	.4071E-02	.2479E-02	.1590E-02	.1069E-02	.7492E-03	.5440E-03
4.00000	.1235E-01	.6753E-02	.3887E-02	.2362E-02	.1513E-02	.1017E-02	.7126E-03	.5173E-03
4.10000	.1188E-01	.6469E-02	.3715E-02	.2254E-02	.1443E-02	.9689E-03	.6786E-03	.4925E-03
4.20000	.1142E-01	.6204E-02	.3554E-02	.2153E-02	.1377E-02	.9240E-03	.6469E-03	.4695E-03
4.30000	.1100E-01	.5955E-02	.3403E-02	.2059E-02	.1315E-02	.8822E-03	.6175E-03	.4480E-03
4.40000	.1060E-01	.5720E-02	.3262E-02	.1971E-02	.1258E-02	.8432E-03	.5900E-03	.4280E-03
4.50000	.1022E-01	.5500E-02	.3130E-02	.1888E-02	.1204E-02	.8066E-03	.5642E-03	.4093E-03
4.60000	.9864E-02	.5292E-02	.3005E-02	.1810E-02	.1153E-02	.7724E-03	.5402E-03	.3917E-03
4.70000	.9525E-02	.5096E-02	.2888E-02	.1737E-02	.1106E-02	.7404E-03	.5176E-03	.3753E-03
4.80000	.9204E-02	.4910E-02	.2778E-02	.1669E-02	.1061E-02	.7103E-03	.4964E-03	.3599E-03
4.90000	.8900E-02	.4735E-02	.2673E-02	.1604E-02	.1020E-02	.6819E-03	.4765E-03	.3454E-03
5.00000	.8611E-02	.4569E-02	.2575E-02	.1543E-02	.9801E-03	.6553E-03	.4578E-03	.3318E-03
5.20000	.8075E-02	.4263E-02	.2394E-02	.1431E-02	.9077E-03	.6064E-03	.4235E-03	.3069E-03
5.40000	.7589E-02	.3987E-02	.2231E-02	.1331E-02	.8431E-03	.5628E-03	.3929E-03	.2846E-03
5.60000	.7147E-02	.3737E-02	.2085E-02	.1241E-02	.7851E-03	.5238E-03	.3655E-03	.2647E-03
5.80000	.6744E-02	.3511E-02	.1952E-02	.1160E-02	.7329E-03	.4886E-03	.3408E-03	.2469E-03
6.00000	.6374E-02	.3304E-02	.1832E-02	.1086E-02	.6857E-03	.4569E-03	.3186E-03	.2307E-03
6.20000	.6036E-02	.3116E-02	.1722E-02	.1020E-02	.6430E-03	.4282E-03	.2985E-03	.2161E-03
6.40000	.5724E-02	.2943E-02	.1622E-02	.9590E-03	.6041E-03	.4021E-03	.2802E-03	.2029E-03
6.60000	.5437E-02	.2784E-02	.1531E-02	.9035E-03	.5686E-03	.3783E-03	.2636E-03	.1908E-03
6.80000	.5171E-02	.2639E-02	.1447E-02	.8527E-03	.5362E-03	.3565E-03	.2484E-03	.1797E-03
7.00000	.4925E-02	.2504E-02	.1370E-02	.8060E-03	.5064E-03	.3366E-03	.2344E-03	.1696E-03
7.20000	.4696E-02	.2379E-02	.1299E-02	.7631E-03	.4791E-03	.3183E-03	.2216E-03	.1604E-03
7.40000	.4484E-02	.2264E-02	.1233E-02	.7236E-03	.4539E-03	.3015E-03	.2099E-03	.1518E-03
7.60000	.4286E-02	.2157E-02	.1172E-02	.6870E-03	.4307E-03	.2859E-03	.1990E-03	.1440E-03
7.80000	.4101E-02	.2058E-02	.1116E-02	.6531E-03	.4092E-03	.2715E-03	.1890E-03	.1367E-03
8.00000	.3928E-02	.1965E-02	.1064E-02	.6217E-03	.3892E-03	.2582E-03	.1797E-03	.1300E-03
8.20000	.3767E-02	.1878E-02	.1015E-02	.5925E-03	.3707E-03	.2459E-03	.1710E-03	.1237E-03
8.40000	.3615E-02	.1797E-02	.9692E-03	.5652E-03	.3535E-03	.2344E-03	.1630E-03	.1179E-03
8.60000	.3472E-02	.1722E-02	.9267E-03	.5399E-03	.3374E-03	.2236E-03	.1555E-03	.1125E-03
8.80000	.3338E-02	.1651E-02	.8869E-03	.5162E-03	.3224E-03	.2137E-03	.1486E-03	.1074E-03
9.00000	.3212E-02	.1584E-02	.8496E-03	.4940E-03	.3084E-03	.2043E-03	.1421E-03	.1027E-03
9.20000	.3093E-02	.1521E-02	.8146E-03	.4732E-03	.2953E-03	.1956E-03	.1360E-03	.9831E-04
9.40000	.2981E-02	.1462E-02	.7818E-03	.4537E-03	.2830E-03	.1874E-03	.1303E-03	.9417E-04
9.60000	.2875E-02	.1407E-02	.7509E-03	.4354E-03	.2714E-03	.1797E-03	.1249E-03	.9030E-04
9.80000	.2774E-02	.1354E-02	.7218E-03	.4182E-03	.2606E-03	.1725E-03	.1199E-03	.8665E-04
10.00000	.2679E-02	.1305E-02	.6944E-03	.4019E-03	.2504E-03	.1657E-03	.1151E-03	.8322E-04

E(P,x)

SQRT(X)	E(2.5,X)	E(3.0,X)	E(3.5,X)	E(4.0,X)	E(4.5,X)	E(5.0,X)	E(5.5,X)	E(6.0,X)
10.00000	.2679E-02	.1305E-02	.6944E-03	.4019E-03	.2504E-03	.1657E-03	.1151E-03	.8322E-04
10.50000	.2462E-02	.1192E-02	.6323E-03	.3653E-03	.2273E-03	.1503E-03	.1044E-03	.7550E-04
11.00000	.2271E-02	.1094E-02	.5782E-03	.3334E-03	.2073E-03	.1370E-03	.9519E-04	.6880E-04
11.50000	.2102E-02	.1007E-02	.5307E-03	.3055E-03	.1898E-03	.1254E-03	.8711E-04	.6295E-04
12.00000	.1951E-02	.9307E-03	.4889E-03	.2810E-03	.1744E-03	.1152E-03	.8001E-04	.5782E-04
12.50000	.1817E-02	.8625E-03	.4519E-03	.2593E-03	.1608E-03	.1062E-03	.7375E-04	.5329E-04
13.00000	.1696E-02	.8016E-03	.4189E-03	.2401E-03	.1488E-03	.9823E-04	.6819E-04	.4927E-04
13.50000	.1587E-02	.7470E-03	.3894E-03	.2229E-03	.1380E-03	.9111E-04	.6324E-04	.4569E-04
14.00000	.1488E-02	.6978E-03	.3629E-03	.2074E-03	.1284E-03	.8474E-04	.5881E-04	.4249E-04
14.50000	.1399E-02	.6534E-03	.3390E-03	.1936E-03	.1198E-03	.7901E-04	.5483E-04	.3961E-04
15.00000	.1317E-02	.6131E-03	.3174E-03	.1810E-03	.1120E-03	.7384E-04	.5124E-04	.3701E-04
15.50000	.1243E-02	.5764E-03	.2978E-03	.1697E-03	.1049E-03	.6917E-04	.4799E-04	.3467E-04
16.00000	.1175E-02	.5430E-03	.2800E-03	.1594E-03	.9847E-04	.6492E-04	.4504E-04	.3253E-04
16.50000	.1112E-02	.5124E-03	.2637E-03	.1500E-03	.9262E-04	.6105E-04	.4236E-04	.3059E-04
17.00000	.1055E-02	.4843E-03	.2488E-03	.1414E-03	.8728E-04	.5752E-04	.3990E-04	.2882E-04
17.50000	.1002E-02	.4585E-03	.2352E-03	.1335E-03	.8238E-04	.5429E-04	.3766E-04	.2720E-04
18.00000	.9525E-03	.4347E-03	.2226E-03	.1263E-03	.7789E-04	.5132E-04	.3560E-04	.2571E-04
18.50000	.9069E-03	.4128E-03	.2110E-03	.1196E-03	.7376E-04	.4859E-04	.3370E-04	.2434E-04
19.00000	.8646E-03	.3924E-03	.2003E-03	.1135E-03	.6994E-04	.4607E-04	.3195E-04	.2307E-04
19.50000	.8252E-03	.3736E-03	.1904E-03	.1078E-03	.6641E-04	.4374E-04	.3033E-04	.2191E-04
20.00000	.7886E-03	.3560E-03	.1812E-03	.1025E-03	.6315E-04	.4158E-04	.2884E-04	.2083E-04
21.00000	.7223E-03	.3245E-03	.1647E-03	.9305E-04	.5730E-04	.3772E-04	.2616E-04	.1889E-04
22.00000	.6642E-03	.2970E-03	.1504E-03	.8485E-04	.5222E-04	.3438E-04	.2384E-04	.1721E-04
23.00000	.6130E-03	.2729E-03	.1378E-03	.7769E-04	.4780E-04	.3146E-04	.2181E-04	.1575E-04
24.00000	.5675E-03	.2516E-03	.1268E-03	.7140E-04	.4391E-04	.2889E-04	.2003E-04	.1446E-04
25.00000	.5270E-03	.2327E-03	.1171E-03	.6585E-04	.4047E-04	.2663E-04	.1846E-04	.1333E-04
26.00000	.4908E-03	.2159E-03	.1084E-03	.6091E-04	.3743E-04	.2462E-04	.1707E-04	.1232E-04
27.00000	.4582E-03	.2008E-03	.1006E-03	.5651E-04	.3472E-04	.2283E-04	.1583E-04	.1143E-04
28.00000	.4288E-03	.1873E-03	.9369E-04	.5257E-04	.3229E-04	.2123E-04	.1472E-04	.1063E-04
29.00000	.4022E-03	.1751E-03	.8744E-04	.4903E-04	.3010E-04	.1980E-04	.1372E-04	.9907E-05
30.00000	.3781E-03	.1641E-03	.8180E-04	.4584E-04	.2813E-04	.1850E-04	.1282E-04	.9258E-05
31.00000	.3561E-03	.1541E-03	.7669E-04	.4294E-04	.2635E-04	.1733E-04	.1201E-04	.8670E-05
32.00000	.3360E-03	.1449E-03	.7204E-04	.4032E-04	.2473E-04	.1626E-04	.1127E-04	.8137E-05
33.00000	.3175E-03	.1366E-03	.6780E-04	.3792E-04	.2326E-04	.1529E-04	.1060E-04	.7651E-05
34.00000	.3006E-03	.1290E-03	.6393E-04	.3574E-04	.2191E-04	.1441E-04	.9983E-05	.7208E-05
35.00000	.2850E-03	.1219E-03	.6037E-04	.3373E-04	.2068E-04	.1359E-04	.9421E-05	.6802E-05

SQRT(X)	E(2.5,X)	E(3.0,X)	E(3.5,X)	E(4.0,X)	E(4.5,X)	E(5.0,X)	E(5.5,X)	E(6.0,X)
35.00000	.2850E-03	.1219E-03	.6037E-04	.3373E-04	.2068E-04	.1359E-04	.9421E-05	.6802E-05
36.00000	.2706E-03	.1155E-03	.5711E-04	.3189E-04	.1955E-04	.1285E-04	.8905E-05	.6429E-05
37.00000	.2573E-03	.1095E-03	.5411E-04	.3020E-04	.1851E-04	.1217E-04	.8430E-05	.6087E-05
38.00000	.2449E-03	.1040E-03	.5133E-04	.2864E-04	.1755E-04	.1153E-04	.7993E-05	.5770E-05
39.00000	.2335E-03	.9895E-04	.4876E-04	.2720E-04	.1666E-04	.1095E-04	.7588E-05	.5478E-05
40.00000	.2228E-03	.9422E-04	.4639E-04	.2586E-04	.1584E-04	.1041E-04	.7213E-05	.5208E-05
41.00000	.2128E-03	.8982E-04	.4418E-04	.2462E-04	.1508E-04	.9909E-05	.6866E-05	.4957E-05
42.00000	.2036E-03	.8573E-04	.4212E-04	.2346E-04	.1437E-04	.9443E-05	.6543E-05	.4724E-05
43.00000	.1949E-03	.8191E-04	.4021E-04	.2239E-04	.1371E-04	.9009E-05	.6242E-05	.4507E-05
44.00000	.1867E-03	.7834E-04	.3842E-04	.2139E-04	.1310E-04	.8604E-05	.5962E-05	.4304E-05
45.00000	.1791E-03	.7500E-04	.3675E-04	.2045E-04	.1252E-04	.8226E-05	.5700E-05	.4115E-05
46.00000	.1720E-03	.7187E-04	.3519E-04	.1958E-04	.1198E-04	.7873E-05	.5455E-05	.3938E-05
47.00000	.1652E-03	.6893E-04	.3372E-04	.1875E-04	.1148E-04	.7541E-05	.5225E-05	.3772E-05
48.00000	.1589E-03	.6617E-04	.3235E-04	.1798E-04	.1101E-04	.7231E-05	.5010E-05	.3617E-05
49.00000	.1529E-03	.6357E-04	.3105E-04	.1726E-04	.1056E-04	.6939E-05	.4807E-05	.3471E-05
50.00000	.1472E-03	.6112E-04	.2984E-04	.1658E-04	.1014E-04	.6664E-05	.4617E-05	.3333E-05
52.00000	.1369E-03	.5663E-04	.2761E-04	.1533E-04	.9380E-05	.6161E-05	.4269E-05	.3082E-05
54.00000	.1276E-03	.5262E-04	.2562E-04	.1422E-04	.8698E-05	.5713E-05	.3958E-05	.2858E-05
56.00000	.1192E-03	.4902E-04	.2384E-04	.1323E-04	.8089E-05	.5313E-05	.3681E-05	.2657E-05
58.00000	.1116E-03	.4578E-04	.2223E-04	.1233E-04	.7541E-05	.4953E-05	.3431E-05	.2477E-05
60.00000	.1047E-03	.4285E-04	.2079E-04	.1152E-04	.7047E-05	.4628E-05	.3206E-05	.2315E-05
62.00000	.9849E-04	.4020E-04	.1948E-04	.1080E-04	.6600E-05	.4334E-05	.3003E-05	.2168E-05
64.00000	.9280E-04	.3778E-04	.1829E-04	.1013E-04	.6194E-05	.4068E-05	.2818E-05	.2034E-05
66.00000	.8759E-04	.3558E-04	.1721E-04	.9529E-05	.5825E-05	.3825E-05	.2650E-05	.1913E-05
68.00000	.8281E-04	.3356E-04	.1622E-04	.8978E-05	.5487E-05	.3603E-05	.2496E-05	.1802E-05
70.00000	.7841E-04	.3171E-04	.1531E-04	.8474E-05	.5179E-05	.3401E-05	.2356E-05	.1701E-05
72.00000	.7436E-04	.3001E-04	.1448E-04	.8010E-05	.4895E-05	.3214E-05	.2227E-05	.1607E-05
74.00000	.7062E-04	.2845E-04	.1371E-04	.7584E-05	.4634E-05	.3043E-05	.2108E-05	.1522E-05
76.00000	.6716E-04	.2700E-04	.1300E-04	.7191E-05	.4394E-05	.2885E-05	.1998E-05	.1443E-05
78.00000	.6395E-04	.2566E-04	.1235E-04	.6828E-05	.4171E-05	.2739E-05	.1897E-05	.1370E-05
80.00000	.6097E-04	.2442E-04	.1174E-04	.6491E-05	.3965E-05	.2604E-05	.1804E-05	.1302E-05
82.00000	.5819E-04	.2327E-04	.1118E-04	.6179E-05	.3775E-05	.2478E-05	.1717E-05	.1239E-05
84.00000	.5560E-04	.2219E-04	.1066E-04	.5889E-05	.3597E-05	.2362E-05	.1636E-05	.1181E-05
86.00000	.5318E-04	.2119E-04	.1017E-04	.5618E-05	.3432E-05	.2253E-05	.1561E-05	.1127E-05
88.00000	.5092E-04	.2026E-04	.9716E-05	.5366E-05	.3278E-05	.2152E-05	.1491E-05	.1076E-05
90.00000	.4880E-04	.1938E-04	.9291E-05	.5131E-05	.3134E-05	.2057E-05	.1425E-05	.1029E-05
92.00000	.4681E-04	.1856E-04	.8894E-05	.4910E-05	.2999E-05	.1969E-05	.1364E-05	.9845E-06
94.00000	.4494E-04	.1780E-04	.8522E-05	.4704E-05	.2873E-05	.1886E-05	.1306E-05	.9431E-06
96.00000	.4318E-04	.1708E-04	.8172E-05	.4510E-05	.2754E-05	.1808E-05	.1253E-05	.9042E-06
98.00000	.4153E-04	.1640E-04	.7844E-05	.4328E-05	.2643E-05	.1735E-05	.1202E-05	.8677E-06
100.00000	.3997E-04	.1576E-04	.7535E-05	.4157E-05	.2538E-05	.1666E-05	.1154E-05	.8333E-06

